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By: Susan L. Baka  
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PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Andreas MANZ *et al.*

APPLICATION No.: 09/995,554

FILED: February 9, 2001

FOR: METHOD FOR CONTROLLING SAMPLE INTRODUCTION IN MICROCOLUMN SEPARATION TECHNIQUES AND SAMPLING DEVICE

EXAMINER: ~~CYDILLE DELAGROIX-MUIRHEAD~~ **BROWN**

ART UNIT: ~~1644~~ **1745**

CONFIRMATION No.: 9313

SAD # 9-17-02

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TC 1700

Information Disclosure Statement Within Three Months of Application Filing or Before First Action - 37 CFR 1.97(b)

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

1. Timing of Submission

The information transmitted herewith is being filed *after* three months of the filing date of this application or after the mailing date of the first Office action on the merits, whichever occurred last, but *before* the mailing date of either a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, whichever occurs first. The references listed on the enclosed Form PTO/SB/08A may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

Copies of the following references are enclosed:

- All cited references
- References marked by asterisks
- The following:

- Copies of the following references can be found in parent U.S. Application No.
  - All cited references
  - References marked by asterisks
  - The following:

- The following references are not in English. For each such reference, the undersigned has enclosed: (i) a translation of the reference; (ii) a copy of a communication from a foreign patent office or International Searching Authority citing the reference; (iii) a copy of a reference which appears to be an English-language counterpart; or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.

- All cited references
- References marked by ampersands
- The following:

3. Effect of Information Disclosure Statement (37 CFR 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment (37 CFR 1.97(c)) or Certification (37 CFR 1.97(e))

- Applicant elects to pay the fee under 37 CFR 1.17(p) \$180.00.
  - Check enclosed for \$
  - Please charge the above fee(s) to Deposit Account No. 50-2207 this paper is provided in triplicate.
- Applicant submits that no fee is due in light of the following certification under 37 CFR 1.97(e) (check only one):
  - In accordance with 37 CFR 1.97(e)(1), the undersigned hereby states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to this filing of this statement; or
  - In accordance with 37 CFR 1.97(e)(2), the undersigned hereby states that no item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to the knowledge of the person signing the certification after making reasonable

inquiry, was known to any individual designated in 37 CFR 1.56(c), more than three months prior to the filing of this statement.


- Please charge any underpayment for timely filing of this paper to Deposit Account No. 50-2207.

5. Patent Term Adjustment (37 CFR 1.704(d))

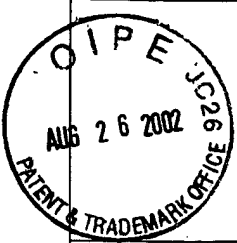
- The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. §1.704(d).

Respectfully submitted,  
Perkins Coie LLP

Date: 8-20-02

  
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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
 Form PTO-1449 (Modified)  
 (Use several sheets if necessary)

COMPLETE IF KNOWN

Application Number	09/780,849
Confirmation Number	9313
Filing Date	February 9, 2001
First Named Inventor	Andreas Manz
Group Art Unit	1614
Examiner Name	Not Assigned
Attorney Docket No.	50225-8066.US06

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**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
		NUMBER	Kind Code (if known)			
		4,963,498		Hillman et al.	01/15/88	
		5,144,139		Hillman et al.	07/19/91	
		5,164,598		Hillman et al.	02/05/91	
		5,180,480		Manz	01/13/92	
		5,250,263		Manz	10/30/91	
		5,288,463		Chemelli	04/02/93	
		5,296,114		Manz	11/30/92	

**FOREIGN PATENT DOCUMENTS**

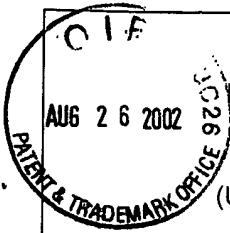
Examiner Initial	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
			EP356160A2		Stanford University	08/17/89		
			EP376611A2		Stanford University	12/20/89		
			WO91/16966		Pharmacia Biosensor AB	05/08/91		
			UK2191110A		The Plessey Company plc	06/06/86		

**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
		Burggraf, N., et al., "Synchronized Cyclic Capillary Electrophoresis: A Novel Concept for High-Performance Separations Using Low Voltages", <i>Analytical Methods and Instruments</i> , 1 (1): 55-59 (1993).	

EXAMINER	DATE CONSIDERED
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\*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).



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		NUMBER	Kind Code (if known)			
		5,298,134		Zare et al.	05/20/93	
		5,376,252		Ekström-et-al.	11/10/92	
		5,480,614		Kamahori	03/16/94	
		5,599,432		Manz et al.	11/08/94	
		5,639,423		Northrup et al.	08/31/92	
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		6,322,683		Wolk et al.	04/14/99	

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		Effenhauser, Carlo S., "Effects of Electrokinetic Sample Injection on the Composition of Small Volume Samples in Capillary Electrophoresis", <i>Analytical Methods and Instrumentation</i> 1: (3) 172-176 (1993).		
		Effenhauser, C.S., et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights", <i>American Chemical Society</i> 65: 2637-2642 (1993).		

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		Harrison, D.J., et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip", <i>Science</i> 261:895-897 (1993).	
		Harrison, D.J., et al., "Miniaturized Chemical Analysis Systems and their Fabrication: An Alternative to Chemical Sensors", <i>The Electrochemical Society, Inc., Chemical Sensors II</i> , 93-7: 546-552 (1993).	
		Harrison, D.J., et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system", <i>Analytica Chimica Acta</i> , 283: 361-366 (1993).	
		Koutny, L.B., et al., "Microscale Chemical Instrumentation: Capillary Separations on a Chip", <i>Thirty-Third ORN/DOE Conference On Analytical Chemistry in Energy Technology</i> (1992).	

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		Manz, A., et al., "Design of an Open-tubular Column Liquid Chromatograph Using Silicon Chip Technology", <i>Sensors and Actuators</i> , <u>B1</u> : 249-255 (1990).	
		Manz, A., et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing", <i>Sensors and Actuators</i> , <u>B1</u> :244-248 (1990).	
		Manz, A., et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring", <i>Advances in Chromatography</i> , <u>33</u> : 2-66 (1993).	
		Pentoney, S.L., et al., "On-Line Connector for Microcolumns: Application to the On-Column o-Phthaldialdehyde Derivatization of Amino Acids Separated by Capillary Zone Electrophoresis", <i>Anal. Chem.</i> , <u>60</u> : 2625-2629 (1988).	
		Seiler, K., et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency", <i>Anal. Chem.</i> , <u>65</u> : 1481-1488 (1993).	
		Stegehuis, D.S., et al., "Analyte focusing in capillary electrophoresis using on-line isotachopheresis", <i>Journal of Chromatography</i> , <u>591</u> : 341-349 (1992).	

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